





# Professional Grade Optical Media

Verbatim's professional optical media is manufactured on selected production lines using up to 66% tighter specifications than standard media. Only the same **Mitsubishi-owned media codes** are used on all Verbatim professional media, which guarantees:

- Top class disc-to-disc consistency
- Best burner and player compatibility
- Supreme burning quality



### Superior Grade

The superior grade of the Verbatim media ensures that you have less downtime of hardware, fewer rejects, fewer returns from customers and lower overall costs, providing the ideal choice when quality and reliability is a priority.

### Applications

- Duplication (e.g. marketing discs, technical manuals, software updates)
- Archiving (save space on your 1st tier HDD RAID system)
- Medical applications (e.g. X-Ray, MRI, Ultrasound recordings)

# Print Surfaces

Verbatim's professional range is available in a variety of high quality print surfaces to suit all needs. All surfaces are unbranded (i.e. do not include the Verbatim logo) and are offered in the newly developed wide printable surface allowing you to fully print and rebrand your discs.

### Inkjet Matt White and Silver and Glossy Water resistant

For all inkjet printers supporting disc printing  
Standalone printers  
Professional duplication equipment

### Fully compatible Thermal surface

Used in duplication equipment  
Rimage Everest & Prism printer series  
TEAC P55 Printer

### Shiny Silver

For Thermal transfer  
For Silkscreen printing



## Compatibility and print quality with professional thermal printers

| Ink                 | Rimage       |             |             | TEAC                   |                              |             | Sticking           | Wide Printable |
|---------------------|--------------|-------------|-------------|------------------------|------------------------------|-------------|--------------------|----------------|
|                     | Prism Colour | Prism B/W   | Everest     | Different Ribbons      |                              |             |                    |                |
|                     |              |             |             | Wax Melt (Colour Mode) | Dye Sublimation (Photo Mode) | Versa Max   |                    |                |
| <b>Verbatim</b>     | <b>Good</b>  | <b>Good</b> | <b>Good</b> | <b>Good</b>            | <b>Good</b>                  | <b>Good</b> | <b>Good - Fair</b> | <b>Yes</b>     |
| <b>Competitor x</b> | No Data      | Very Good   | Good        | Poor                   | Good                         | Poor        | -                  | No             |
| <b>Competitor y</b> | Poor         | Poor        | Good        | Good                   | Good                         | Good        | Good               | Yes            |
| <b>Competitor z</b> | No Data      | Fair        | Good        | Good                   | Good                         | Good        | Fair               | Yes            |

# Verbatim Proprietary Technologies

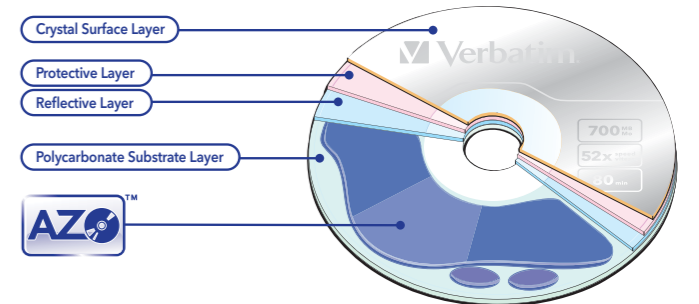
Mitsubishi Kagaku Media (MKM), Verbatim's parent company in Japan, brings extensive technological research and development to the company's product lines. Core technologies, like our AZO recording layer and Hard Coat finish give Verbatim media the technological advantage over competing products.



# Advanced AZO Dye Technology

This Mitsubishi Chemical Corp. patented, ultra-stable recording layer strongly resists UV light, withstands high laser and rotation speeds on newer drives, and ensures compatibility with current optical storage media standards.

**What does that mean for you?** The AZO recording layer, which is contained within all Verbatim professional CD and DVD media, enables excellent read and write performance, high-quality photo and sound storage recording quality and superior archival stability that lasts for generations.



# Hard Coat Surface

Some discs are handled extensively, for example, 8cm discs that are constantly placed in and out of the camcorder in external environments. To protect from potential damage, all Verbatim Blu-ray and Archival Grade discs benefit from the Hard Coat protective layer, which was developed originally by Verbatim. This layer protects from fingerprints, dust, scratches, static and water.

See below 2 examples. The left hand image shows a disc comparison for typical scratch resistance. The right hand image shows how Verbatim's Hard Coat prevents from fingerprint smudging, an essential feature for Blu-ray and Archival Grade recording.

### Hardness + Low Friction = Scratch resistance

|                        | With Hard Coat | Without Hard Coat |
|------------------------|----------------|-------------------|
| Wiping with a cloth    |                |                   |
| Wiping with steel wool |                |                   |

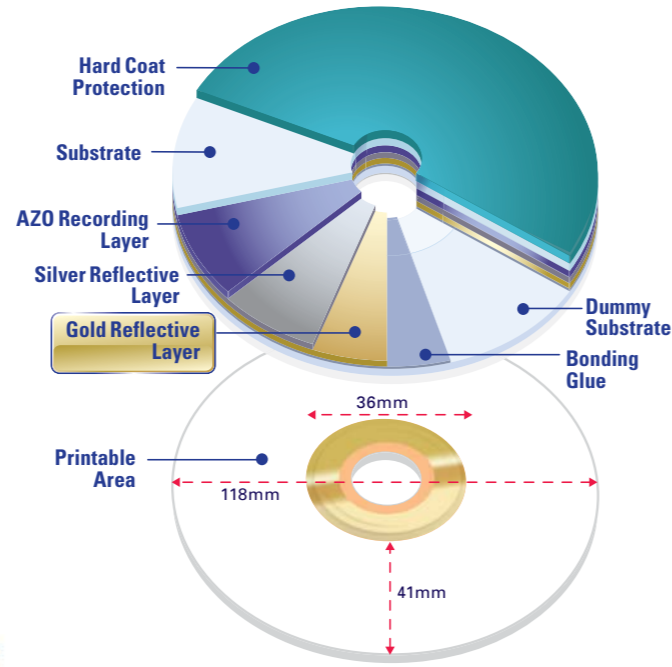
### Artificial Fingerprint Test - No fingerprint smudging

|                    | Level 1 | Level 2 | Level 3 |
|--------------------|---------|---------|---------|
| Verbatim Hard Coat |         |         |         |
| Competitor A       |         |         |         |



# Gold Archival Media

With a dual gold/silver reflective layer, AZO dye and Hard Coat protection, the Gold Archival DVD-R is designed for longevity. The dual gold/silver reflection layer with the valuable gold coating offers the **longest possible archival lifetime.**



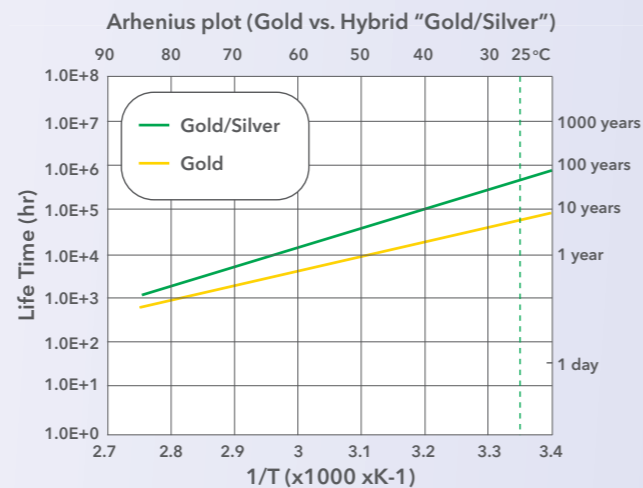
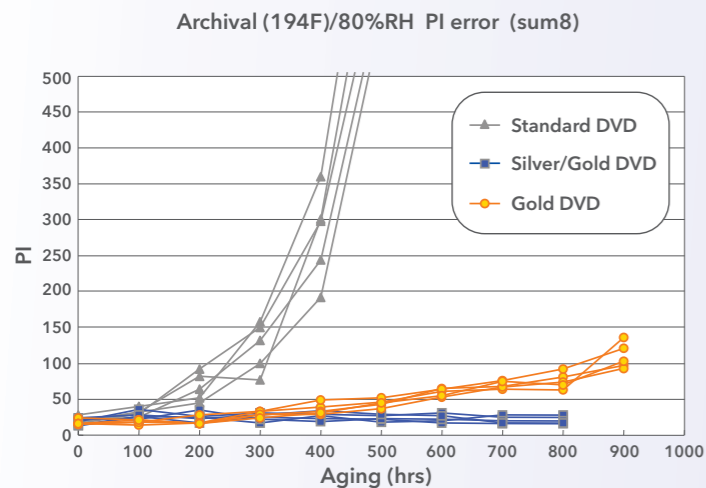
## Excellent Environmental Durability

Oxidization is one of the primary causes of corrosion in optical discs; oxygen can penetrate through the bonding glue, exposing the metallic reflective layer to corrosion. Gold is more durable against atmospheric substances such as oxygen, and the gold layer on Verbatim's Dual Reflective Layer R-DVDs prevents this deterioration from happening. When tested under a range of accelerating aging and environmental conditions including extreme heat, humidity and ultraviolet light, Verbatim's Gold Archival

media with its Dual Reflective Layer produced excellent results (see Damp Heat Test Comparison diagram below). Also, when compared to "gold layer only" discs, Verbatim's Dual Reflective Layer media delivers significantly longer lifetime performances (see Lifetime Estimation Comparison diagram below). This is because gold remains relatively soft when used in R-DVD media which can lead to deformation of other adjacent materials such as dye and polycarbonate, which are heated easily.

### Damp Heat Test Comparison

### Lifetime Estimation Comparison



# DataLifePlus

Within the Verbatim professional portfolio is the DataLifePlus range which is selected to even tighter specifications, eradicating tracking and focus error and ensuring better compatibility with writers and recorders.

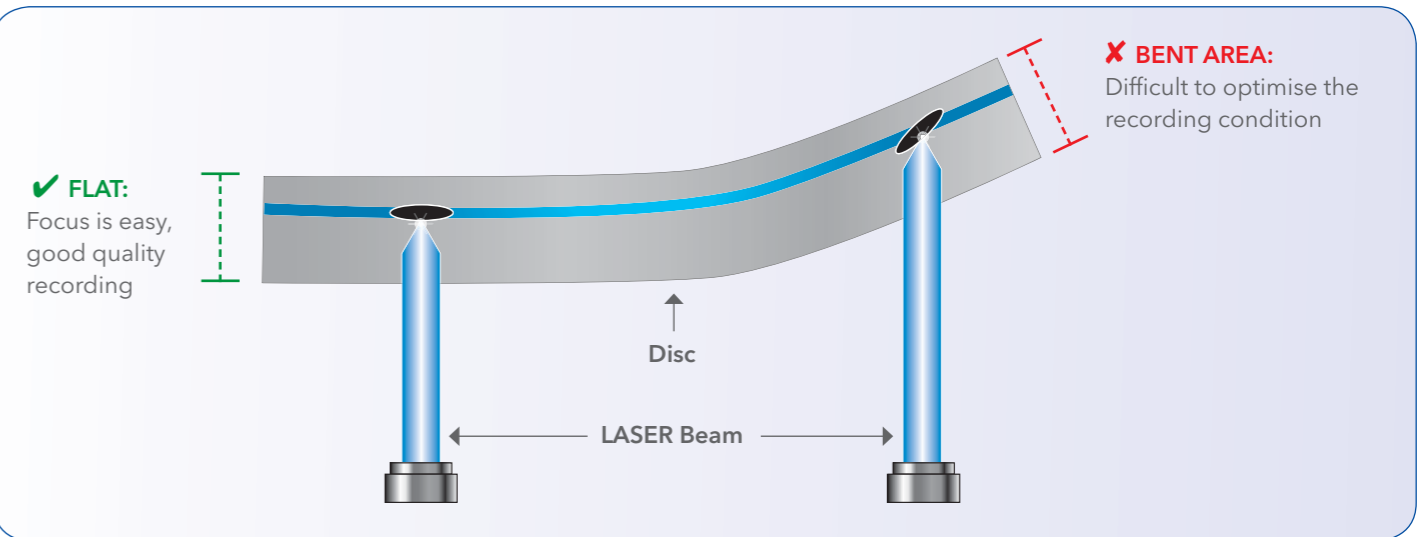
### This results in:

- Less deflection and eccentricity on CD-R
- Less deviation and tilt on DVD-R
- Tighter specs on BD-R

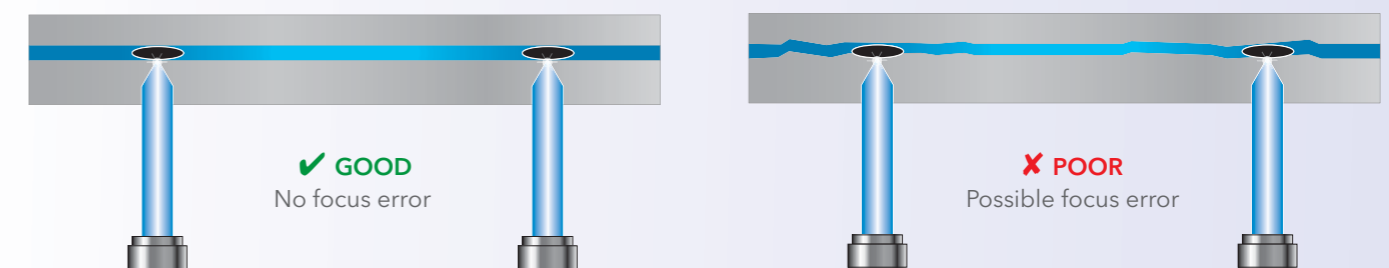


## Keep The Disc Flat

Verbatim/Mitsubishi controls the complete manufacturing process (including stamper manufacturing). The combination of a perfect recording spiral, absolute disc flatness and the AZO recording layer ensures excellent recording quality.

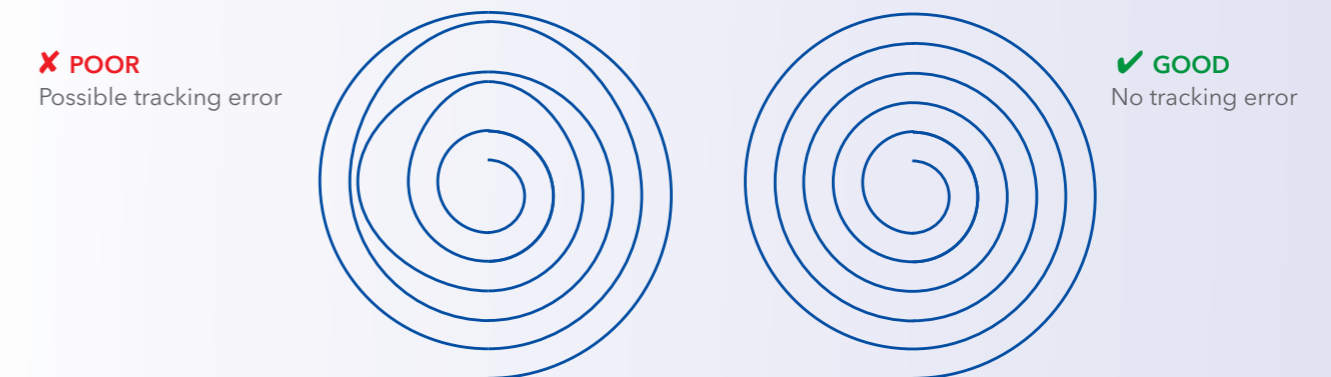


Mitsubishi controls the production process. A flat disc without focus error can be written/read by the burner / writer without problems.



Influence of a good stamper vs. a poor stamper.

A disc without tracking error can easily be written/read by the burner/player.

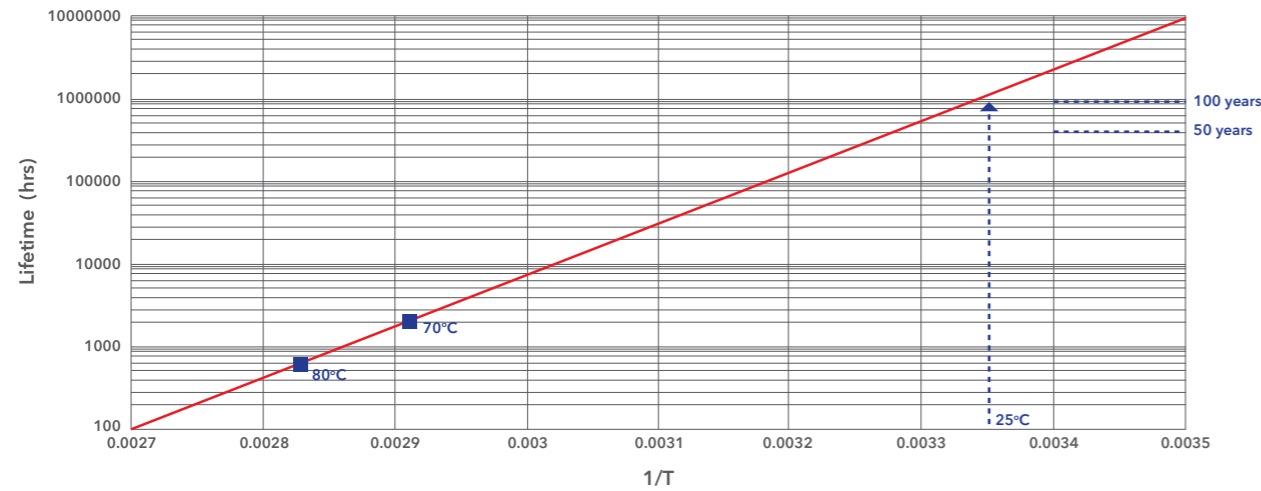




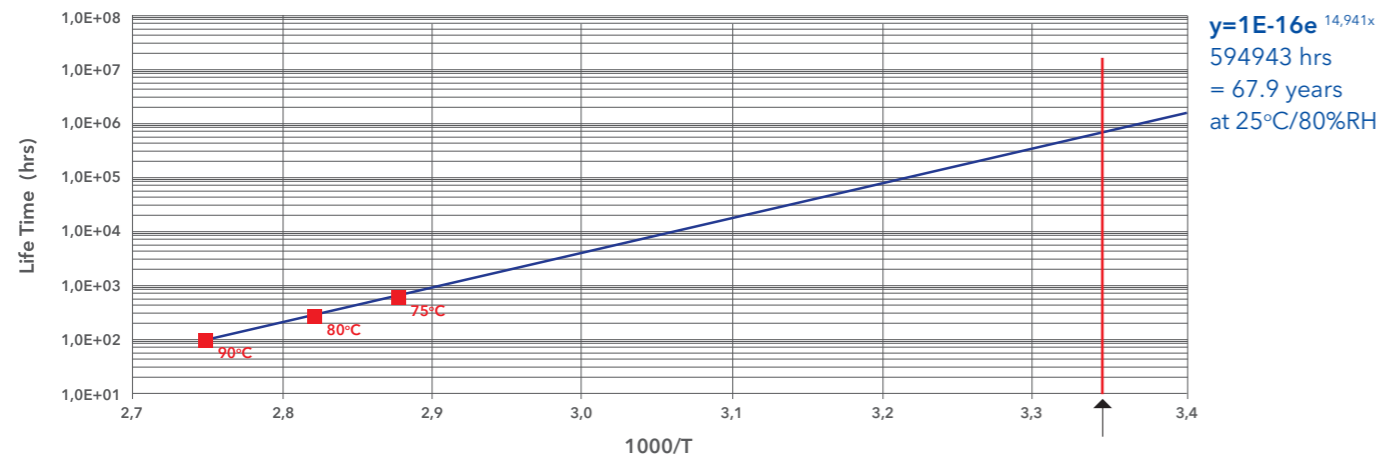
# Lifetime Expectation

Due to the superior technology used on Verbatim media, the expected lifetime of our discs are 100 years for DVD-R and CD-R, and 50 years for BD-R, BD-R DL and DVD+R DL. (Arrhenius method).

**Arrhenius Plot of Mitsubishi High Speed CD-R**  
CD-CATS SA3 BLER > 220cps (Humidity : 85%RH)



**Life Estimation of MKM DVD+RDL**  
(Life End: PI Error =280)



# Quality Certified

All Verbatim optical media factories are ISO9001 and ISO14001 certified. Verbatim optical media fulfils RoHS and WEEE requirements.

ISO9001  
Quality  
Management

ISO14001  
Environmental  
Management



# Verbatim's Heritage

**MITSUBISHI CHEMICAL CORPORATION**



Verbatim is a 100%-owned subsidiary of Mitsubishi Kagaku Media (MKM), which itself is part of one of the largest chemical companies in the world, Mitsubishi Chemical Corporation (MCC).

Mitsubishi Chemical's R&D combined with its strong cooperation with drive manufacturers ensures that Verbatim's media is of the highest quality and offers the widest compatibility of with all the major hardware manufacturers in the market.

With these technical and marketing advantages, Verbatim has become the worldwide number 1 selling brand for optical media.

# Verbatim Product Portfolio - Professional Optical Media

| PN                   | SPEED   | CAPACITY | CONFIGURATION        | SURFACE*                                | PRINT DIAMETER | PRINTING SYSTEM      |
|----------------------|---------|----------|----------------------|-----------------------------------------|----------------|----------------------|
| <b>BD-R</b>          |         |          |                      |                                         |                |                      |
| 43738                | 6X      | 25GB     | 25pk spindle         | DataLifePlus Wide Printable No-ID       | 22 - 118       | Inkjet               |
| 43743                | 6X      | 25GB     | 25pk spindle         | DataLifePlus WideThermal No-ID          | 23 - 117       | Everest, Prism & P55 |
| 43749                | 6X      | 50GB     | 25pk spindle         | DataLifePlus Wide Print No-ID           | 22 - 118       | Inkjet               |
| 43750                | 6X      | 50GB     | 25pk spindle         | DataLifePlus WideThermal No-ID          | 22 - 117       | Everest, Prism & P55 |
| <b>DVD-R/+R</b>      |         |          |                      |                                         |                |                      |
| 43755                | 16X     | 4.7GB    | 50pk spindle         | DataLifePlus Wide Thermal No-ID         | 21 - 118       | Everest, Prism & P55 |
| 43512                | 16X     | 4.7GB    | 50pk OPS spindle     | DVD+R Wide Print No-ID                  | 21 - 118       | Inkjet               |
| 43744                | 16X     | 4.7GB    | 50pk spindle         | DataLifePlus Wide Print No-ID           | 21 - 118       | Inkjet               |
| 43645                | 16X     | 4.7GB    | 50pk spindle         | Wide Silver Print No-ID                 | 21 - 118       | Inkjet               |
| 43647                | 16X     | 4.7GB    | 50pk spindle         | Shiny Silver No-ID                      | 40 - 118       | Prism / Silkscreen   |
| 43734                | 16X     | 4.7GB    | 50pk spindle         | DataLifePlus Waterproof printable No-ID | 21 - 118       | Inkjet               |
| 43782                | 16X     | 4.7GB    | 50pk spindle         | Wide Thermal Silver                     | 21 - 118       | Everest, Prism & P55 |
| 43638                | 8X      | 4.7GB    | 5 pk Box Std J/case  | Gold Archival Printable No-ID           | 36 - 118       | Inkjet               |
| 43634                | 8X      | 4.7GB    | 25 pk OPS Spindle    | Gold Archival Printable No-ID           | 36 - 118       | Inkjet               |
| <b>DVD+R DL</b>      |         |          |                      |                                         |                |                      |
| 43754                | 8X      | 8.5GB    | 50 pk Spindle        | DataLifePlus Wide Thermal No-ID         | 21 - 118       | Everest, Prism & P55 |
| 43703                | 8X      | 8.5GB    | 50 pk OPS Spindle    | Wide Print No-ID                        | 21 - 118       | Inkjet               |
| <b>CD-R</b>          |         |          |                      |                                         |                |                      |
| 43745                | 52X     | 700MB    | 50pk OPS Spindle     | DataLifePlus Wide Print No-ID           | 23 - 118       | Inkjet               |
| 43653                | 52X     | 700MB    | 50pk Spindle         | Wide Silver Print No-ID                 | 23 - 118       | Inkjet               |
| 43781                | 52X     | 700MB    | 50pk Spindle         | Wide Silver Thermal                     | 23 - 118       | Everest, Prism & P55 |
| 43756                | 52X     | 700MB    | 50pk Spindle         | DataLifePlus Wide Thermal No-ID         | 23 - 118       | Everest, Prism & P55 |
| 43582                | 52X     | 700MB    | 50pk Spindle         | Shiny Silver No-ID                      | 40 - 118       | Prism / Silkscreen   |
| 43718                | 52X     | 700MB    | 50pk Spindle         | Thermal No-ID                           | 40 - 118       | Prism                |
| 43710                | 52X     | 700MB    | 25pk OPS spindle     | Wide Print No-ID - Vinyl                | 23 - 70        | Inkjet               |
| <b>DVD-RAM</b>       |         |          |                      |                                         |                |                      |
| 95026                | 3X      | 9.4GB    | 50pk spindle         | Not Applicable (N/A)                    | N/A            | N/A                  |
| <b>8cm DVD-R</b>     |         |          |                      |                                         |                |                      |
| 43573                | 1X - 4X | 1.4GB    | 10pk OPS Spindle     | Wide Printable No-ID                    | 23 - 78        | Inkjet               |
| <b>Medical DVD-R</b> |         |          |                      |                                         |                |                      |
| 94905                | 8X      | 4.7GB    | 10 pk Box Std J/case | Medi disc - White/Blue                  | N/A            | N/A                  |
| <b>Medical CD-R</b>  |         |          |                      |                                         |                |                      |
| 94736                | 52X     | 700MB    | 10 pk Box Std J/case | Medi disc - White/Green                 | N/A            | N/A                  |



### Verbatim Limited

Prestige House, 23-26 High Street,  
Egham, Surrey TW20 9DU  
UK  
Tel. +44 (0) 1784 439 781 Fax. +44 (0) 1784 471 337  
Email: info.uk@verbatim-europe.com  
<http://www.facebook.com/VerbatimEurope>

### Verbatim France SAS

Immeuble Hermes  
20 rue Jacques Daguerre  
92565 Rueil-Malmaison Cedex  
France  
Tel. +33 (0) 1 47 16 94 20 Fax. +33 (0) 1 47 16 15 00  
Email: info.france@verbatim-europe.com  
Email: infomideastafrica@verbatim-europe.com

### Verbatim GmbH

Düsseldorfer Str. 13, D - 65760 Eschborn  
Germany  
Tel. +49 (0) 6196 900 10 Fax. +49 (0) 6196 900 120  
Email: info.germany@verbatim-europe.com  
<http://www.facebook.com/VerbatimDeutschland>

### Verbatim Italia Spa a socio unico

Via Roma 108  
20060 Cassina de' Pecchi MI  
Italy  
Tel. +39 02 9530 1115 Fax. +39 02 9530 0449  
Email: info.italy@verbatim-europe.com

### Verbatim España S.A

Carretera Real, 122-B, 5º2a,  
08960 Sant Just Desvern, Barcelona  
Spain  
Tel. +34 (0) 93 470 55 30 Fax. +34 (0) 93 473 80 94  
Email: info.spain@verbatim-europe.com

### Verbatim Central/East Europe

Düsseldorfer Str. 13, D - 65760 Eschborn  
Germany  
Tel. +49 (0) 6196 900 10 Fax. +49 (0) 6196 900 162  
Email: info.central-east@verbatim-europe.com

### Verbatim Southern Africa

First Floor, Building 4,  
Pinewood Office Park  
33 Riley Road,  
Woodmead  
South Africa  
Tel. +27 (0) 11 253 4940 Fax. +27 (0)11 234 3626  
Email: info.sa@verbatim-europe.com

### Verbatim Nordic

Skelstedet 2A, 2950 Vedbæk  
Denmark  
Tel. +45 7022 6323 Fax. +45 4590 7088  
Email: info.nordic@verbatim-europe.com

### Московское представительство

#### Verbatim GmbH

Бизнес центр Ситидел  
ул. Земляной Вал, 9  
105064 Москва  
Email: info.central-east@verbatim.com  
<http://www.facebook.com/VerbatimRussia>

### Verbatim Benelux

Laan van Zuid Hoorn 14, 2289 DE Rijswijk  
The Netherlands  
Tel. +31 (0)70 336 76 00 Fax. +31 (0)70 336 76 11  
Email: info.nl@verbatim-europe.com

### www.verbatim.com

• EUROPE/ MIDDLE EAST/ AFRICA: Verbatim Ltd, Prestige House,  
23-26 High Street, Egham, Surrey, TW20 9DU, UK  
• AMERICAS: USA Verbatim Americas LLC, Charlotte, NC  
• AUSTRALIA/ NEW ZEALAND: Verbatim Australia Pty Ltd,  
Unit 6, 450 Princes Highway, Noble Park, Victoria, 3174 Australia  
Tel: +61 3 9790 8999 Fax: +61 3 9790 8955 Email: support@verbatim.com.au  
• KOREA: 110-070, #1326 Yongbieocheong 75 Naesu-dong Jongno-gu, Seoul, Korea

銷售公司：香港威寶有限公司  
公司地址：香港九龍尖沙咀廣東道9號海港城港威大廈第6座1213室  
銷售公司：台灣威寶國際貿易股份有限公司  
公司地址：台灣臺北市大安區敦化南路2段40號十樓之1  
聯絡電話：02-27001086  
銷售公司：威寶國際貿易(深圳)有限公司  
公司地址：深圳市福田區泰然九路海松大廈A座1105室

\*"VERBATIM" and  logo are the trademarks of Mitsubishi Kagaku Media Co., Ltd. registered in EU and other countries.